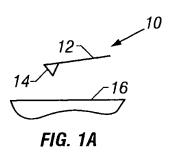
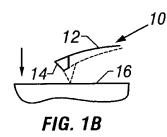
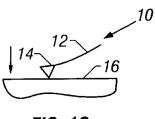
ייון נייינו לייין לייין נייין יייין וייין יייין יייין יייין ייין וייין יייון ייין ייין ייין ייין ייין ייין ייי











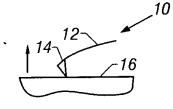


FIG. 1D

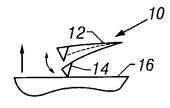


FIG. 1E

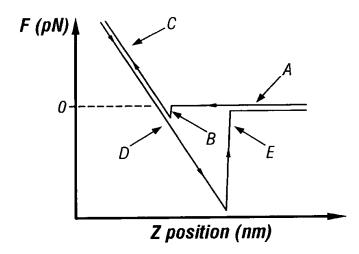


FIG. 2

2/16

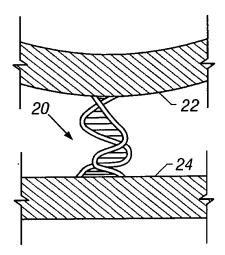


FIG. 3

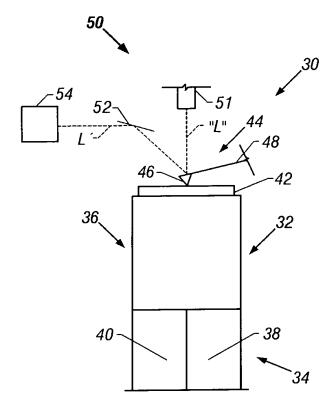


FIG. 4 (Prior Art)



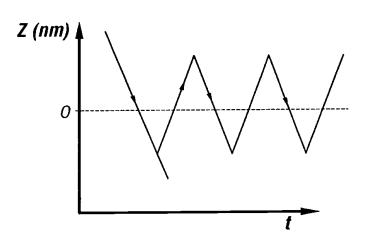


FIG. 5A

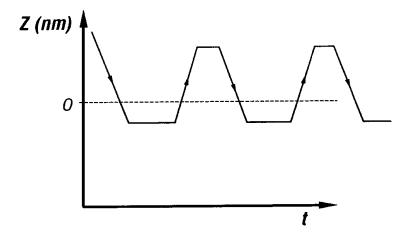
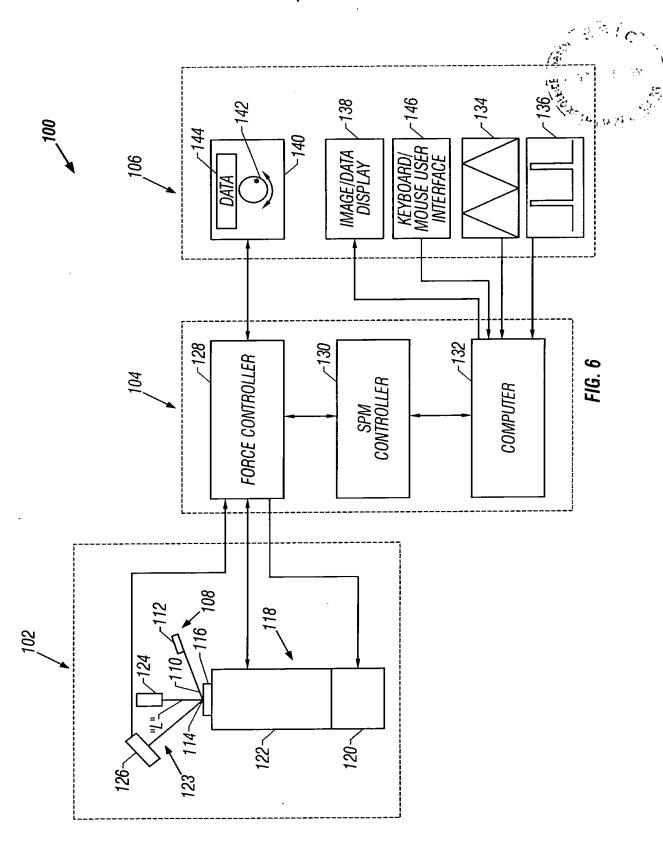
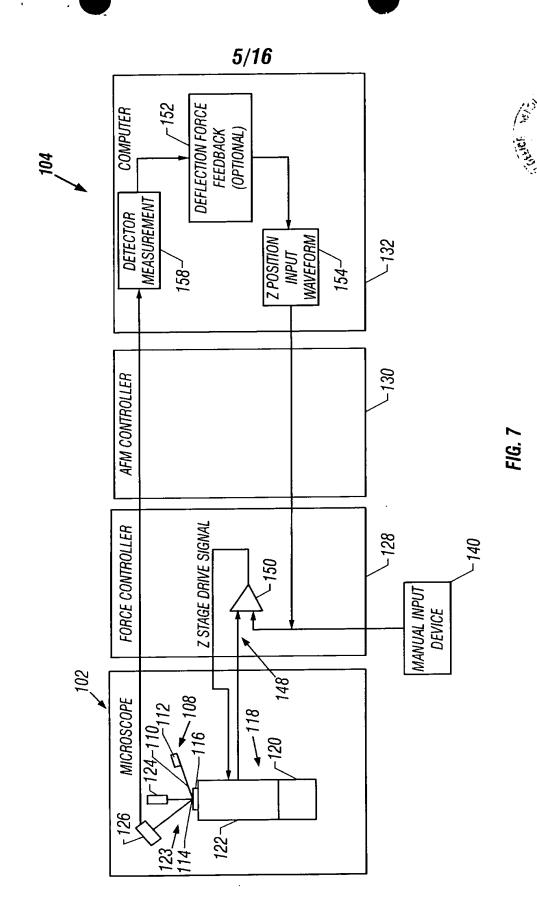


FIG. 5B





6/16

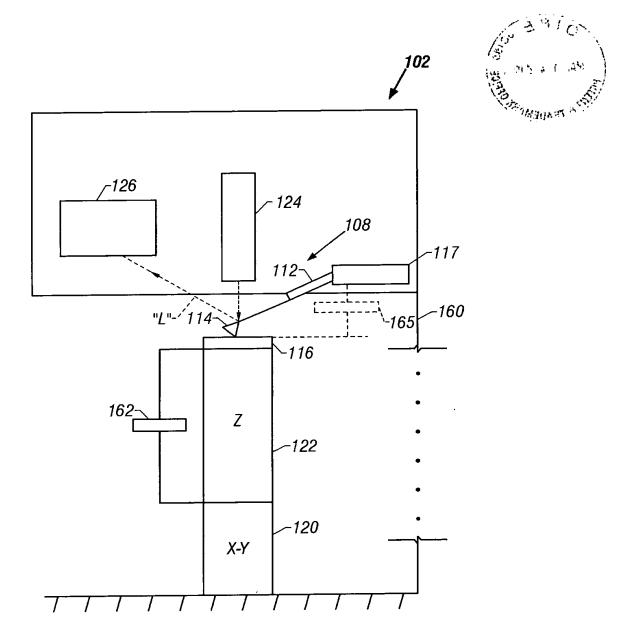


FIG. 8

7/16



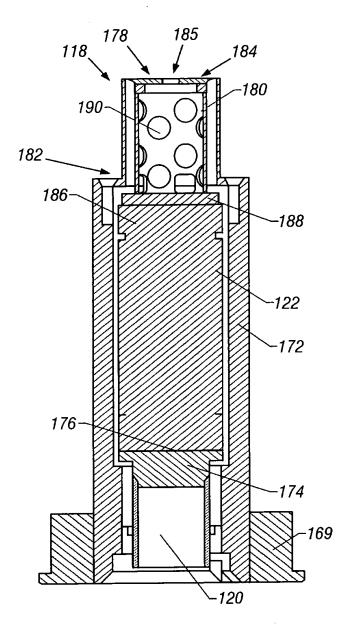


FIG. 9

8/16

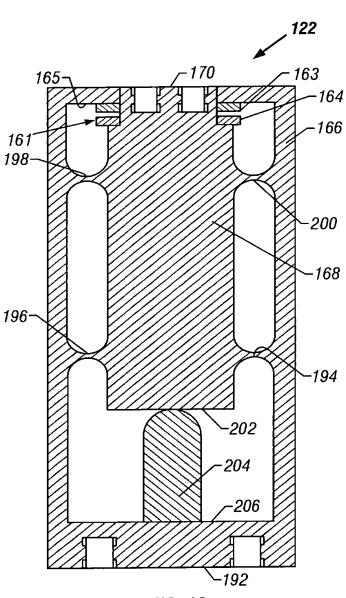


FIG. 10 (Prior Art)



9/16

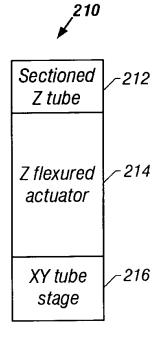


FIG. 11A

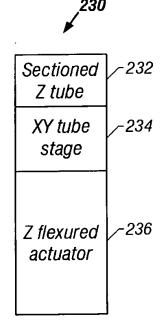


FIG. 11C



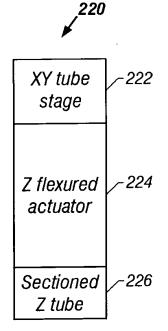


FIG. 11B

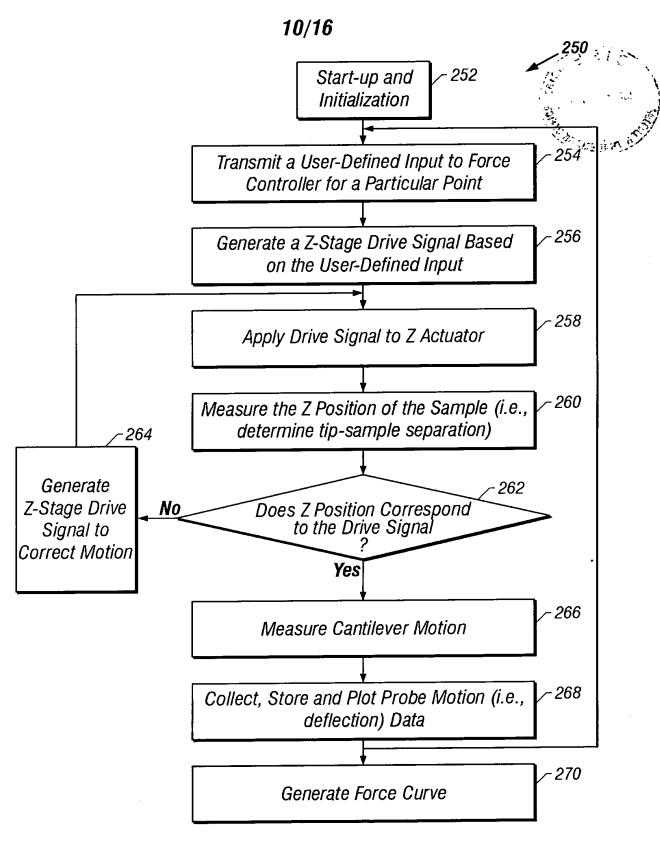
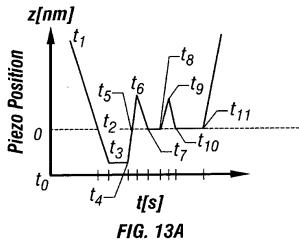
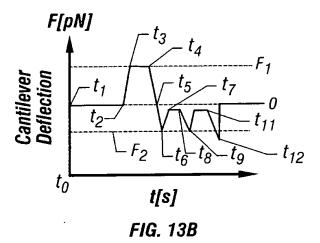


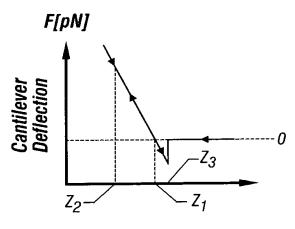
FIG. 12











Piezo z[nm] FIG. 13C

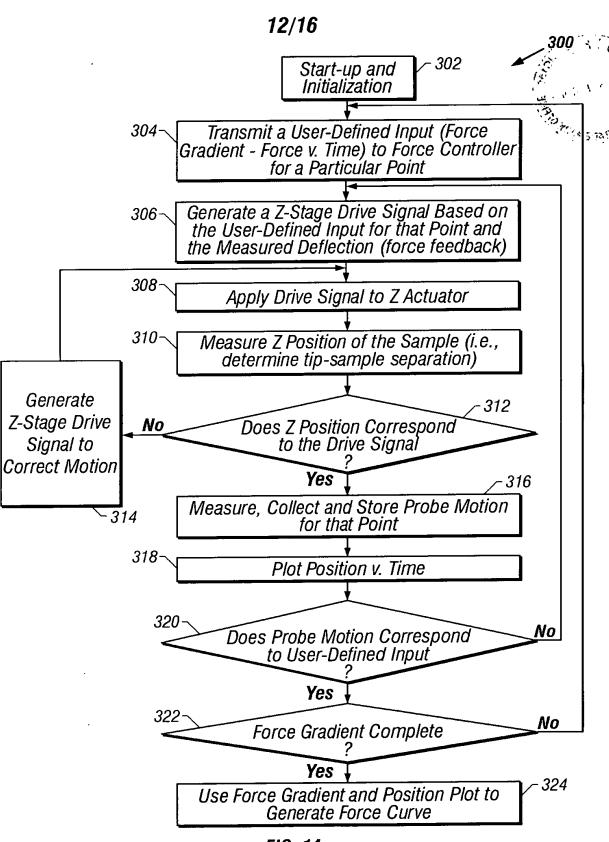
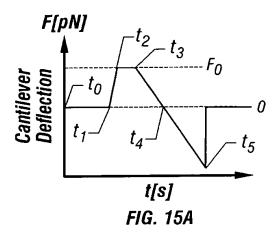
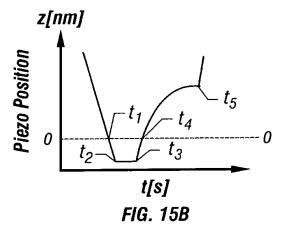
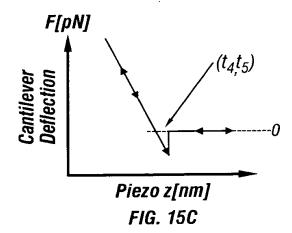


FIG. 14

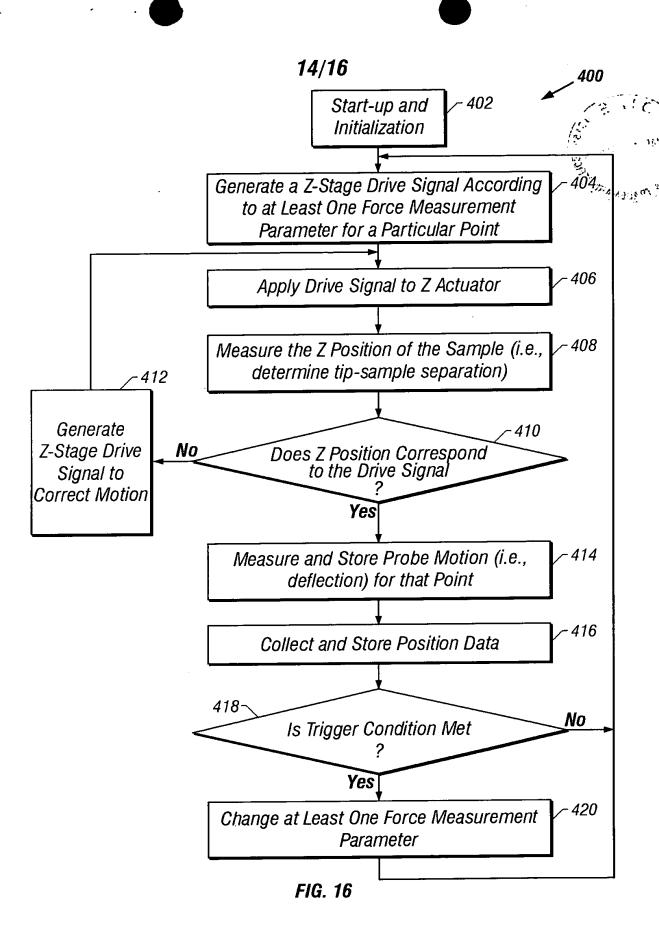




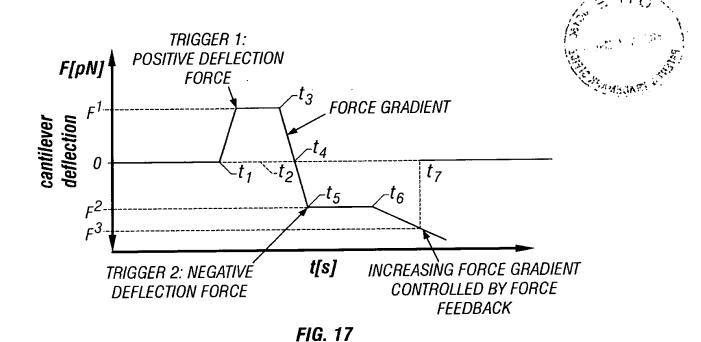








15/16



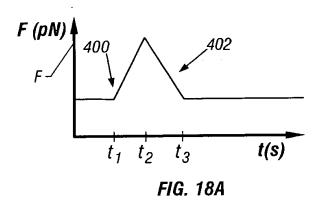
500 510 514 501 516-*506* 526 524 Control 508 -504 522 -502 Drive signal to Z stage Scanner Non-contact 518 probe motion sig. Logic with variable gain -520 Probe motion signal

FIG. 19

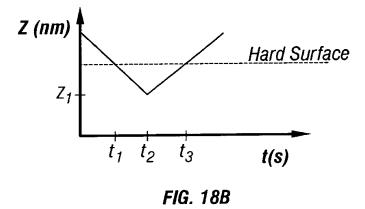




16/16







Z (nm) Z_2 Soft Surface $t_1 \quad t_2 \quad t_3 \qquad t(s)$ FIG. 18C